

Figure 1

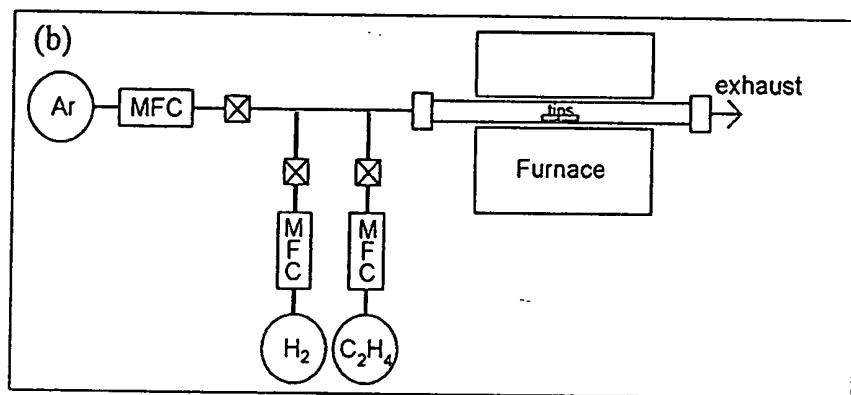
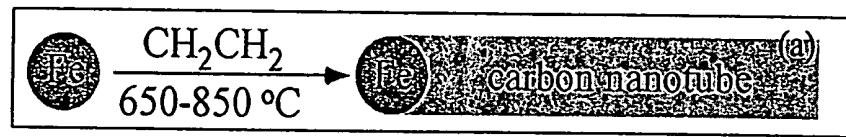


FIG. 2a, b

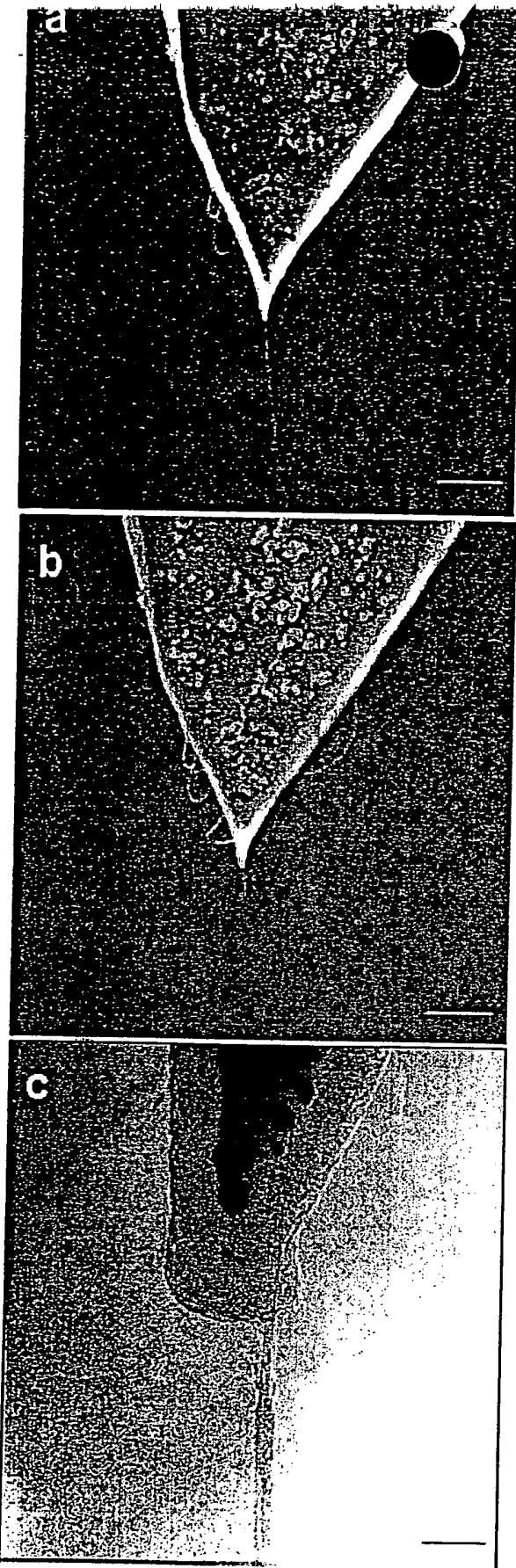
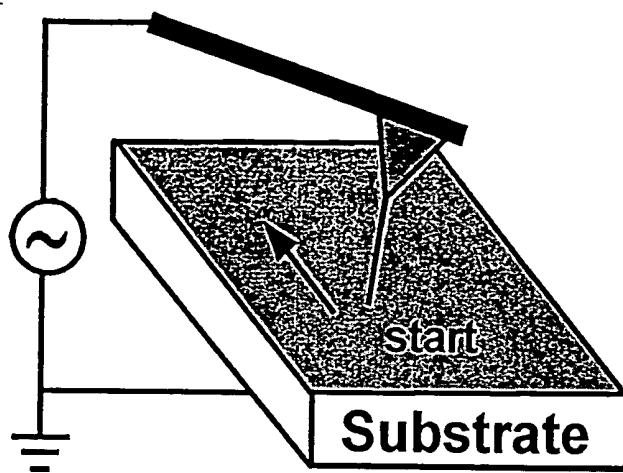
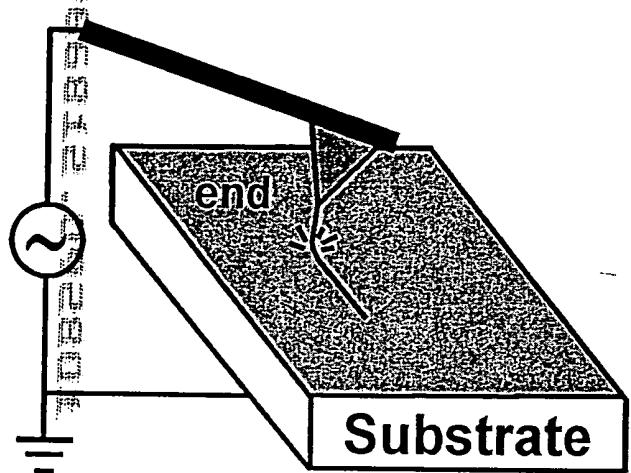


Figure 3

(a)



(b)



(c)

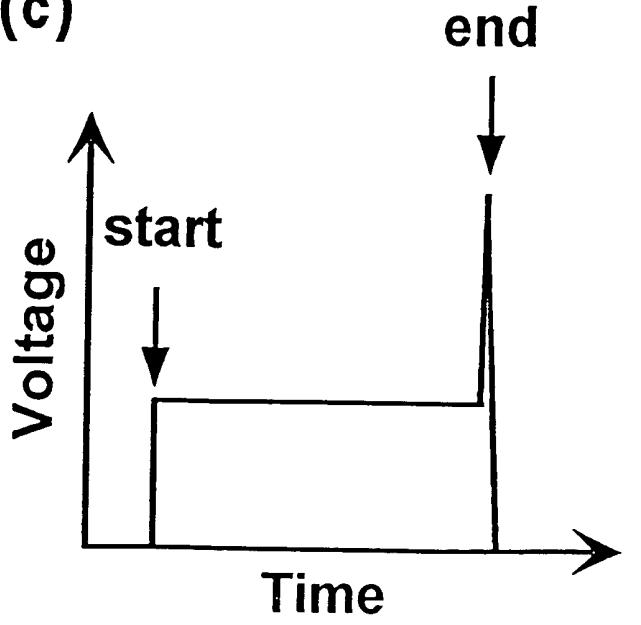


Figure 4

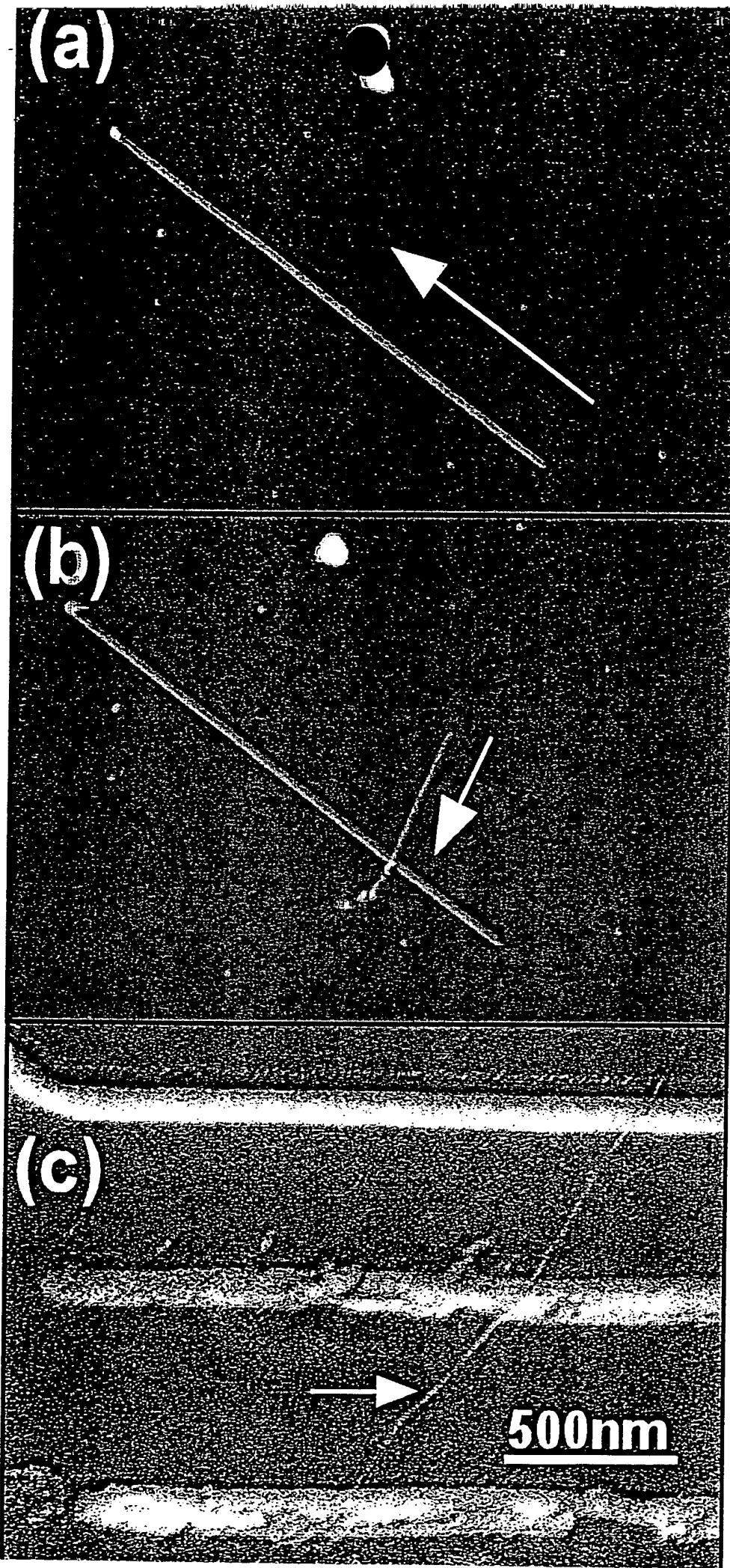
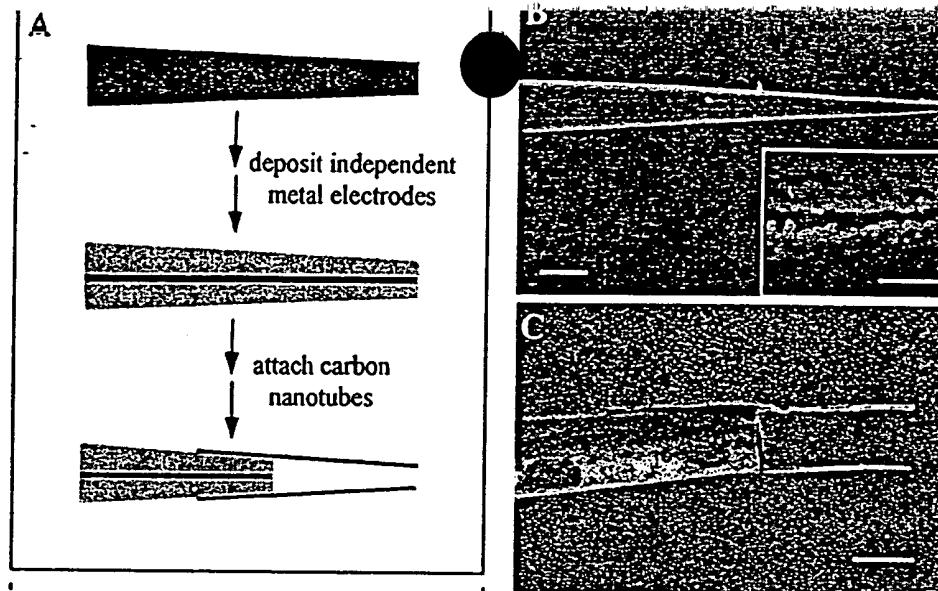
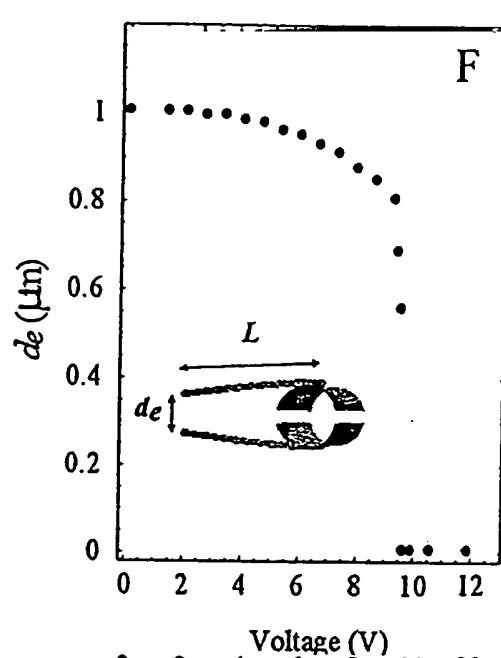
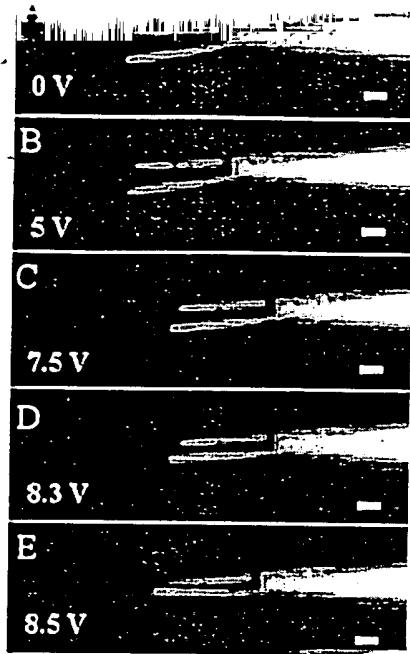


Figure 5



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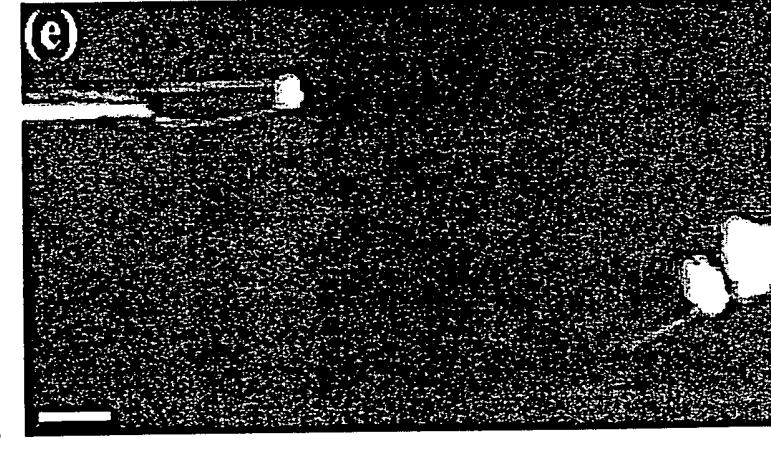
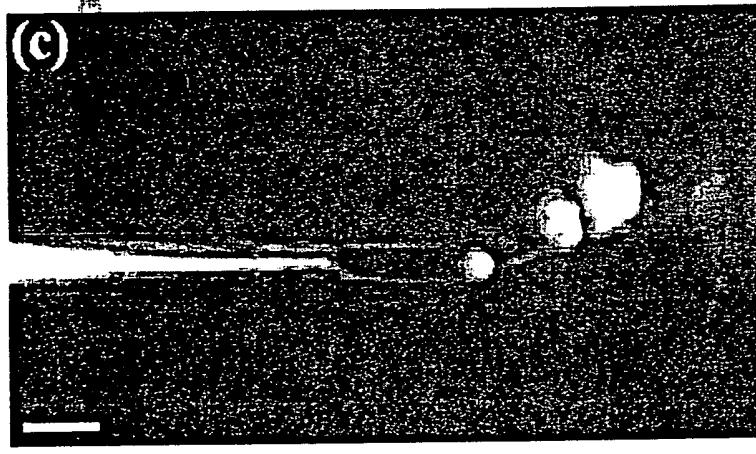
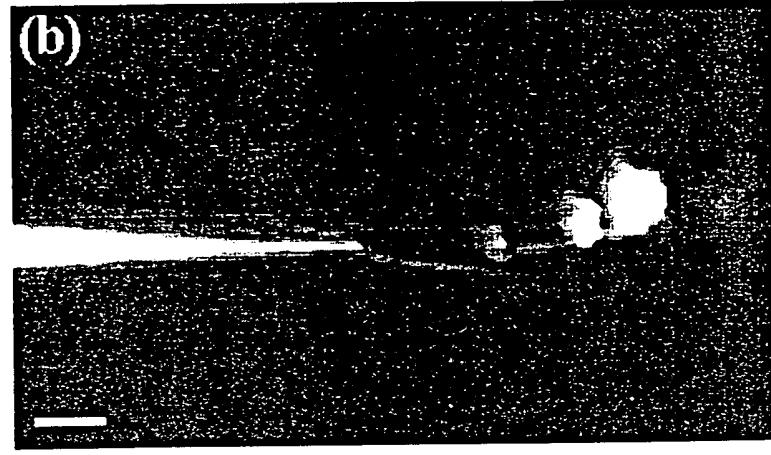
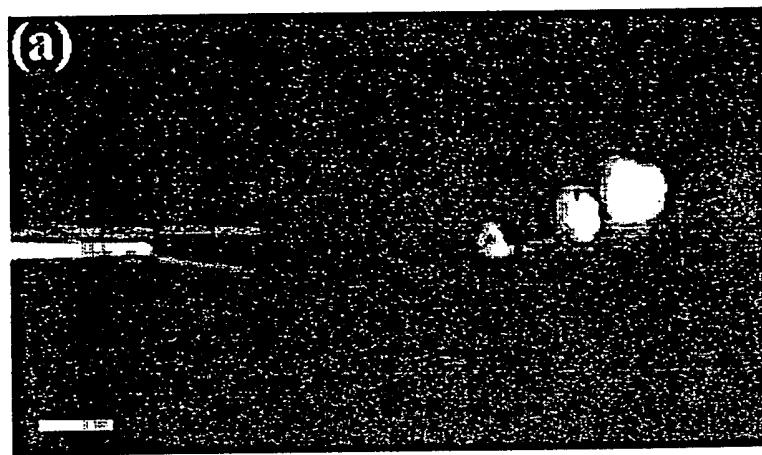
Figure 6



DRAFT - DRAFT - DRAFT

Figure 7

Figure 8



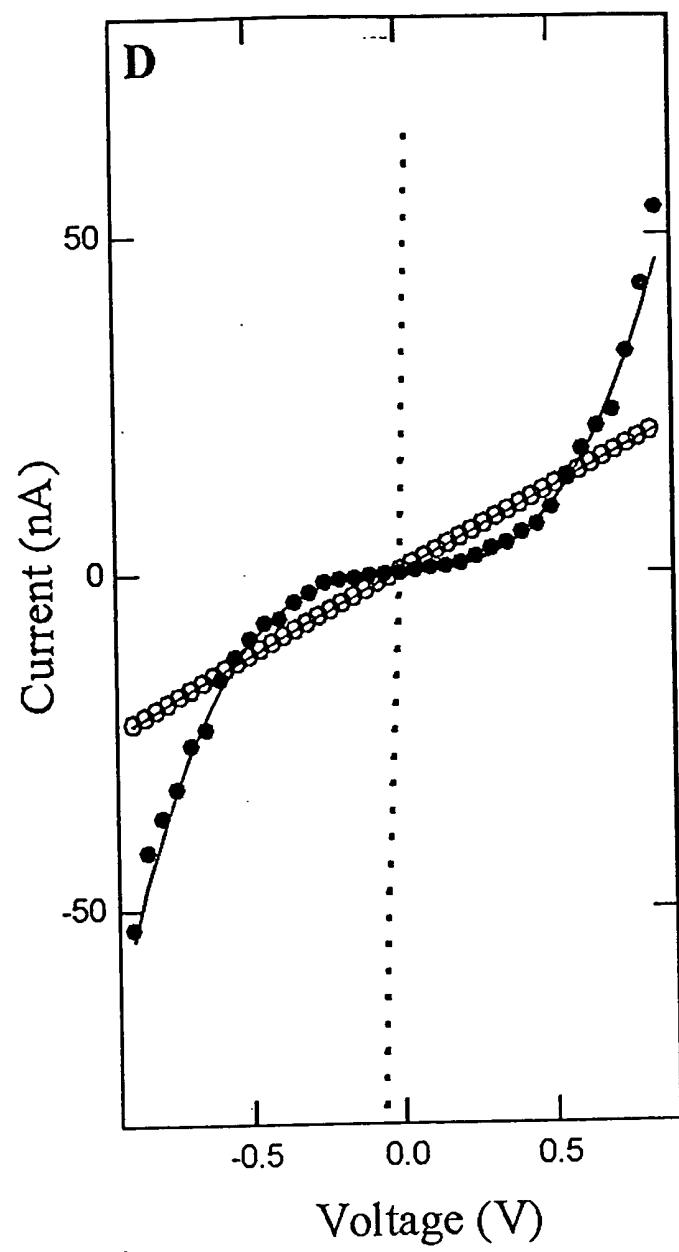
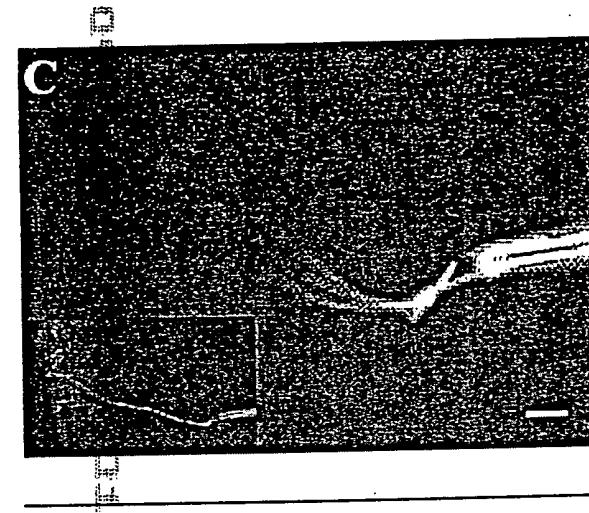
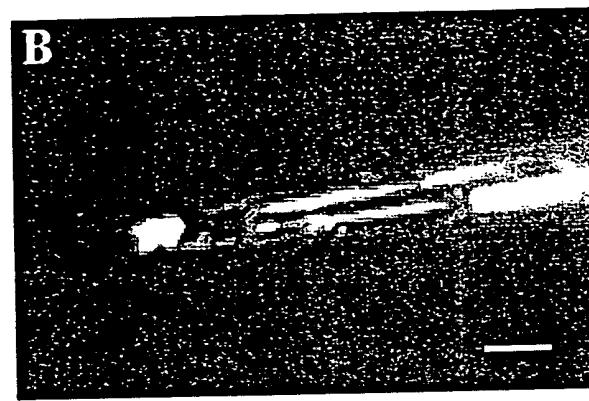
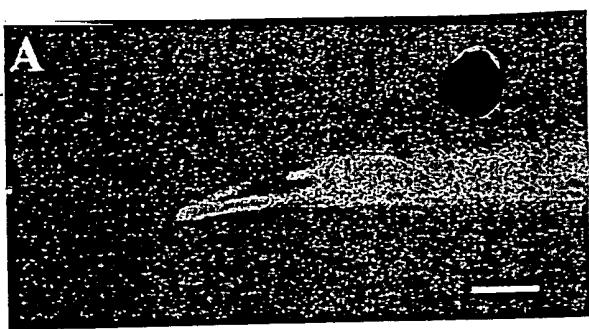
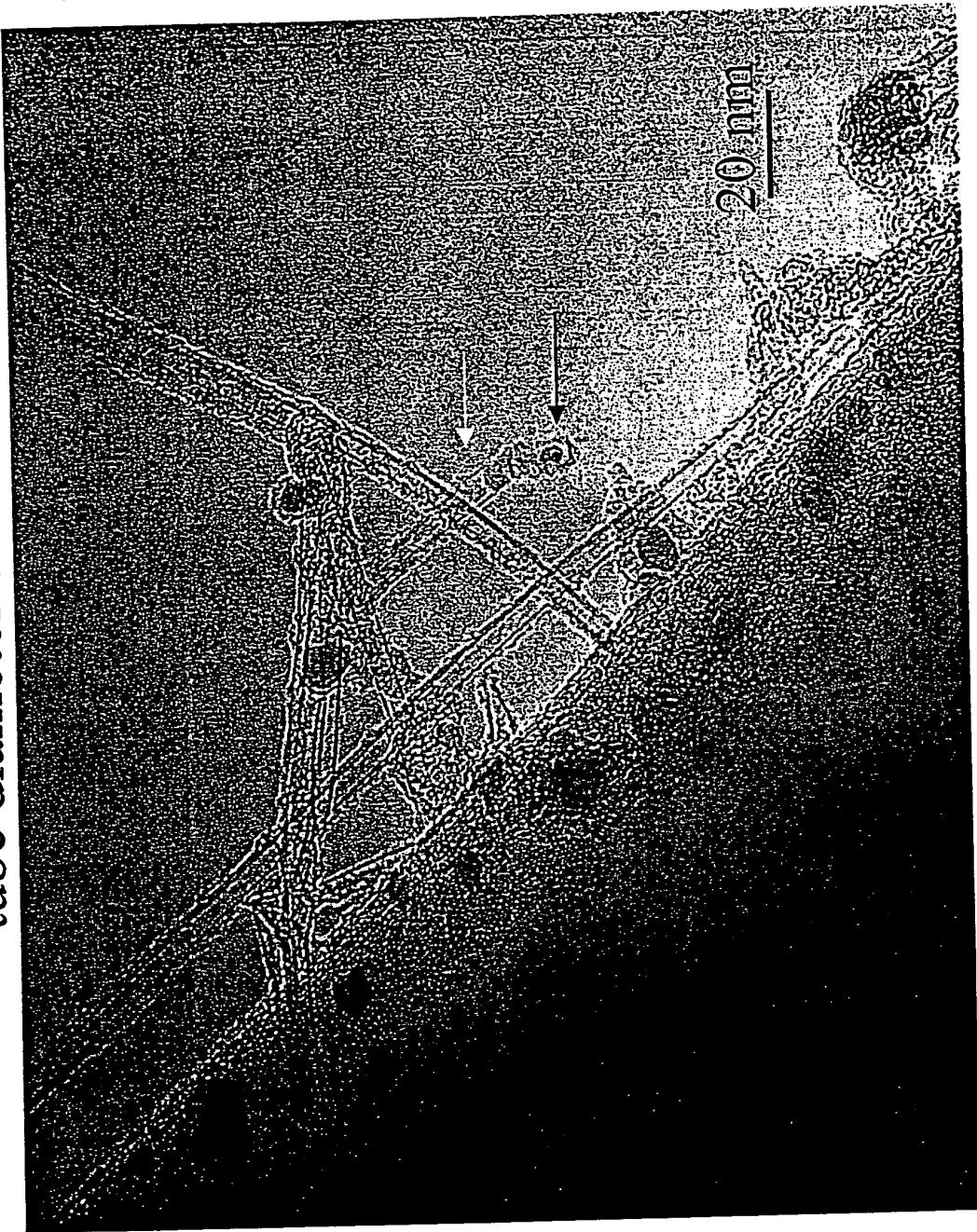


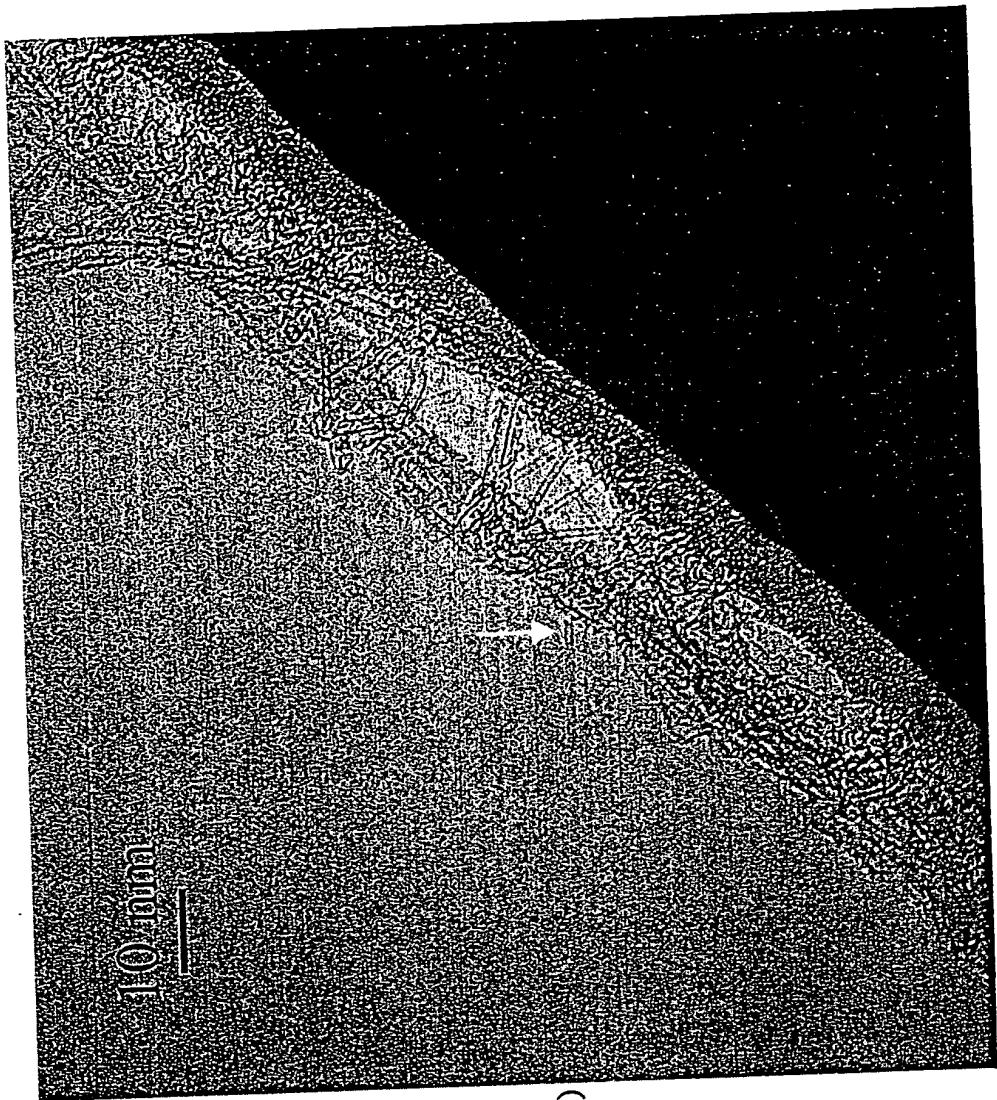
Figure 9

TEM picture of  $C_2H_4$  CVD [large] tube synthesis  
tube diameter c.a. 4nm



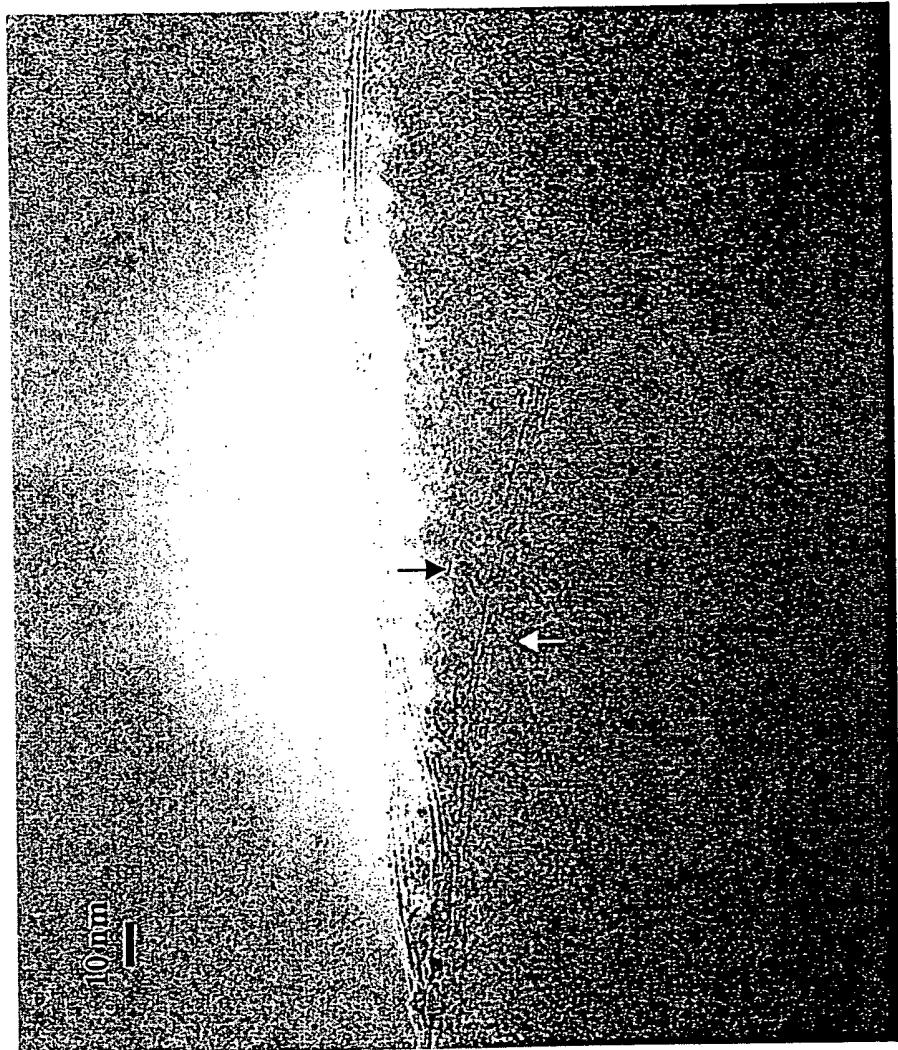
Catalyst: FeOx 6L (black arrow)      Majority of catalyst size: 4 - 6 nm  
Carbon Source:  $C_2H_4$ , SWNT (white arrow)      Majority of SWNT size: 4 nm

Fig. 10



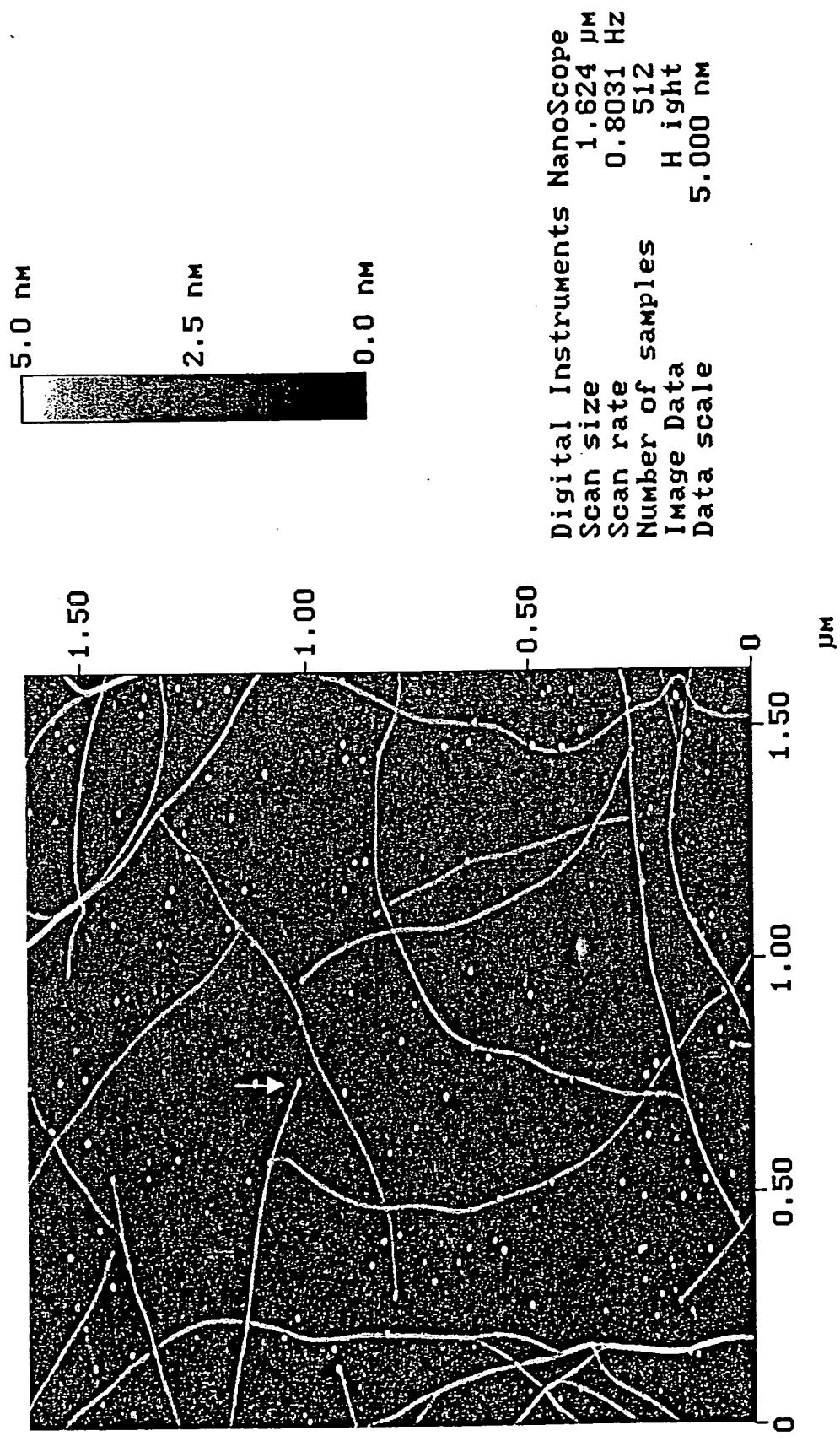
Catalyst: FeOx 2L  
Carbon source: CO  
0.8 nm SWNT (white arrow)

Fig. 11



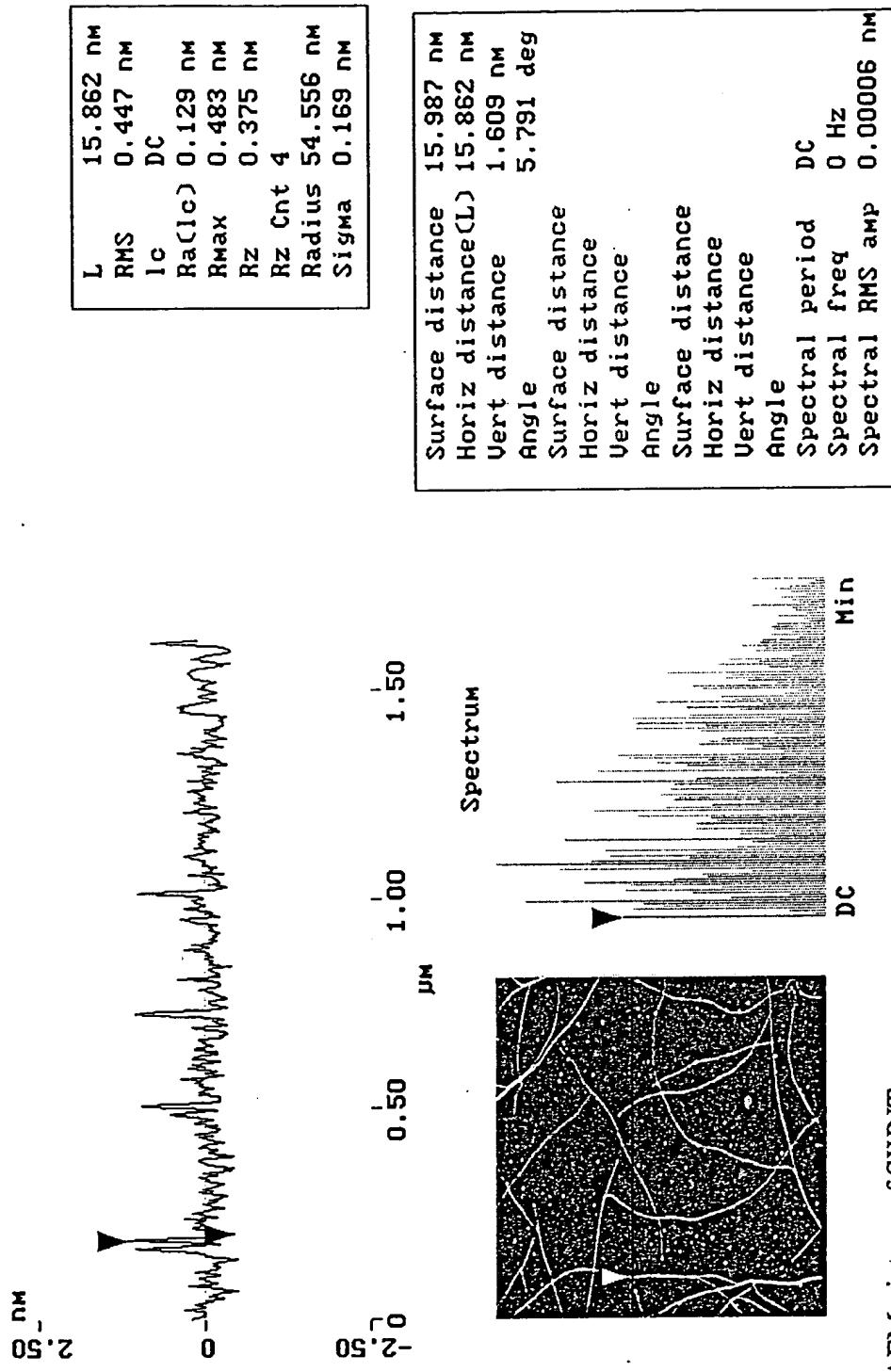
Catalyst: FeOx 2L (black arrow)  
Carbon source: CO, SWNT (white arrow)  
Majority of catalyst size: 1.5 – 3.5 nm  
Majority of nanotube size: 1.3 – 2.3 nm

Fig. 12



Catalyst: FeOx 6L (white arrow)  
Carbon source: C<sub>2</sub>H<sub>4</sub>, SWNT (black arrow)

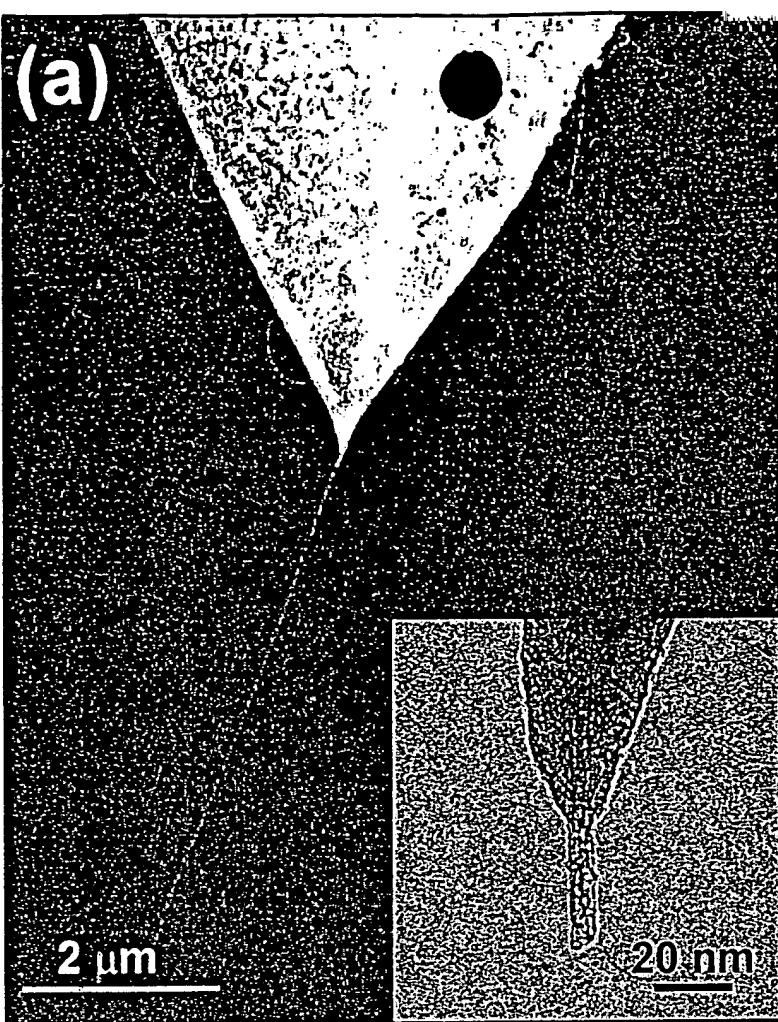
Fig. 13



AFM picture of SWNT

Fig. 14

(a)



(b)

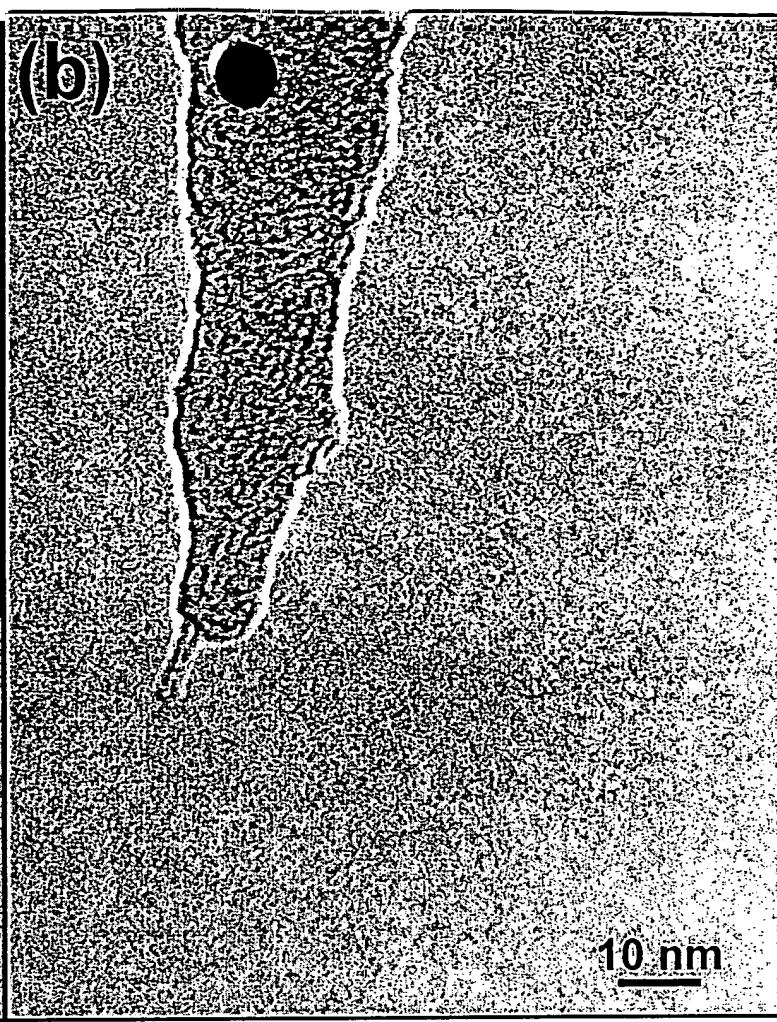


Figure 15

Figure 15